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15 August 2016

Ms. Hamide Kayaci, Remedial Project Manager, HPNS  
Base Realignment and Closure Program Management Office, West  
33000 Nixie Way, Bldg 50  
San Diego, California 92147

**Subject:** Monthly Landfill Gas Monitoring Letter Report for August 2016  
Post-Removal Action, Parcel E-2 Industrial Landfill  
Hunters Point Naval Shipyard, San Francisco, California  
Contract Number N62473-09-D-2626  
Contract Task Order 0007

Dear Ms. Kayaci,

The routine monthly landfill gas monitoring event at Parcel E-2 was performed on Thursday, August 11, 2016. For this event, monitoring via GEM-2000 landfill gas analyzer and photo-ionization detector was performed at gas monitoring probe locations GMP08A, GMP23 and GMP24. GMP08A is located along the fence line of the perimeter of the landfill while GMP23 and GMP24 are located within the UCSF compound as shown on Figure 1.

The results for the routine monthly monitoring event were as follows:

**Methane**

- Methane was detected by the field monitoring equipment in GMP08A, GMP23, and GMP24 at 0.0%, 0.5%, and 0.2% by volume in air, respectively

Per the project's Final Interim Landfill Gas Monitoring and Control Plan (TetraTech, 2004), the methane action levels are as follows:

- The HPNS action level for GMPs along the fence line, in the UCSF compound, and along Crisp Ave. is 2.5% by volume in air
- The regulatory action level for the concentration of methane gas migrating from the landfill must not exceed 5% by volume in air at the property boundary or an alternative boundary approved in accordance with 27 CCR §20925

Since all methane readings were below the action levels during this monitoring period, no further action is required.

### **NMOCs**

- NMOCs were detected by the field monitoring equipment in GMP08A, GMP23, and GMP24 at 0.0 ppmv, 0.0 ppmv, and 0.0 ppmv, respectively

Per the project's Final Interim Landfill Gas Monitoring and Control Plan (TetraTech, 2004), the NMOC action level at these locations is as follows:

- 500 ppmv in GMPs

Since all NMOC readings were below the action level during this monitoring period, no further action is required.

### **Monitoring-Related Notes**

- The GEM-2000 landfill gas analyzer was checked for calibration before and after this monitoring event

The above monitoring information will be included in the Quarterly Report for the third calendar quarter of 2016, to be prepared in October 2016.

The field data sheet and a figure of the monitoring points for this project are included in this report. Please let me know if you have comments or questions about this monitoring event or the data included herein. You can reach me at (310) 519-4000 or by e-mail at [howard@ckyinc.com](mailto:howard@ckyinc.com).

Sincerely,



Howard Wittenberg  
CKY Inc., Project Manager

Enclosures:    Field Data Sheet  
                    Figure of Monitoring Points

CKY INC.

Landfill Gas Control System, Parcel E-2, Hunters Point Shipyard  
Contract N62473-09-D-2626 CTO 0007

## Landfill Gas Monitoring Log

Brian Weeks

Weather: clear

Name:

Sampling Location		Date	Time	Temp (°F)	Barometric Pressure (in. Hg)	GEM-2000				PID		Soil Gas Pressure (in. H <sub>2</sub> O)	Notes (e.g., active extraction, flow rate, probe damage, instrument issues)
Location ID	Description (for example, GMP, Well, Carbon, Hydrosil)					Methane (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Percent of LEL	Non-Methane VOCs (ppmv)	Bckgrd. NMOCs (ppmv)		
GMP08A	Gas Monitoring Probe	8/11/16	820	69	29.82	0.0	10.2	2.2	0.0	0.0	0.0	0.0	
GMP23	Gas Monitoring Probe	8/11/16	855	66	29.83	0.5	16.2	0.4	10.0	0.0	0.0	0.0	
GMP24	Gas Monitoring Probe	8/11/16	905	67	29.83	0.2	16.4	0.8	4.0	0.0	0.0	0.0	

**Legend:**

- %: percent by volume in air
- °F: degrees Fahrenheit
- CO<sub>2</sub>: carbon dioxide
- GEM-2000: CES-LANDTEC landfill gas meter
- in. Hg: inches of mercury
- in. H<sub>2</sub>O: inches of water
- LEL: lower explosive limit

- NA: not applicable
- NMOC: non-methane organic compound
- O<sub>2</sub>: oxygen
- PID: photoionization detector
- ppmv: parts per million by volume
- VOC: volatile organic compound

August 2016

